(FILE 'HOME' ENTERED AT 10:27:50 ON 12 JUN 2003)

FILE 'MEDLINE, SCISEARCH, BIOSIS, CAPLUS' ENTERED AT 10:28:04 ON 12 JUN
2003

L1	595	S LIBRAR? (10A) (MIMOTOPE# OR MIMITIC# OR PEPTIDOMIMETIC#)
L2	136	S L1 AND RANDOM
L3	18	S L2 AND SUPPORT
L4	17	DUPLICATE REMOVE L3 (1 DUPLICATE REMOVED)
L5	0	S L3 AND DECONVOLUT?
L6	0	S L3 AND ITERATIVE
L7	769	S ITERATIVE AND DECONVOLUT?
L8	3	S L7 AND L1

FILE 'STNGUIDE' ENTERED AT 10:41:17 ON 12 JUN 2003

FILE 'BIOSIS' ENTERED AT 10:44:48 ON 12 JUN 2003

FILE 'STNGUIDE' ENTERED AT 10:44:49 ON 12 JUN 2003

FILE 'MEDLINE, SCISEARCH, BIOSIS, CAPLUS' ENTERED AT 10:46:05 ON 12 JUN
2003

L9	12	S L1 AND (POSITIONAL (5A) SCANNING)
L10	0	S L9 AND RANDOM
L11	360	S RANDOM LIBRAR?
L12	4645	S RANDOM (5A) LIBRAR?
L13	0	S L12 AND L9
		E SLOOTSTRA J W/AU
L14	65	S E4-E6
L15	18	S L14 AND LIBRAR?
L16	0	S L14 AND MIMETIC#
L17	11	DUPLICATE REMOVE L15 (7 DUPLICATES REMOVED)

L8   ANSWER 1 OF 3 BIOSIS   COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   2000:271671 BIOSIS
DN   PREV200000271671
TI   New opioid peptides, **peptidomimetics,** and heterocyclic compounds
      from combinatorial **libraries.**
AU   Dooley, C. T.; Houghten, R. A. (1)
CS   (1) Torrey Pines Institute for Molecular Studies, 3550 General Atomics
      Court, San Diego, CA, 92121 USA
SO   Biopolymers, (April 24, 1999) Vol. 51, No. 6, pp. 379-390. print..
      ISSN: 0006-3525.
DT   General Review
LA   English
SL   English

L8   ANSWER 2 OF 3 BIOSIS   COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   1999:160886 BIOSIS
DN   PREV199900160886
TI   Techniques for mixture synthesis.
AU   Kiely, John S. (1)
CS   (1) Houghten Pharmaceuticals Inc., 3550 General Atomics Court, San Diego,
      CA 92121 USA
SO   Moos, W. H. [Editor]; Pavia, M. R. [Editor]; Kay, B. K. [Editor];
      Ellington, A. D. [Editor]. (1997) pp. 6-18. Annual reports in
      combinatorial chemistry and molecular diversity, Vol. 1.
      Publisher: ESCOM Science Publishers B.V. PO Box 214, 2300 AE Leiden, The
      Netherlands.
      ISBN: 90-72199-23-5.
DT   Book
LA   English

L8   ANSWER 3 OF 3 BIOSIS   COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   1998:144585 BIOSIS
DN   PREV199800144585
TI   Peralkylation: "Libraries from libraries": Chemical transformation of
      synthetic combinatorial libraries.
AU   Ostresh, John M.; Doerner, Barbara; Houghten, Richard A.
CS   Torrey Pines Inst. Molecular Studies, San Diego, CA USA
SO   Cabilly, S. [Editor]. Methods in Molecular Biology, (1998) Vol. 87, pp.
      41-49. Methods in Molecular Biology; Combinatorial peptide library
      protocols.
      Publisher: Humana Press Inc. Suite 808, 999 Riverview Drive, Totowa, New
      Jersey 07512, USA.
      ISSN: 0097-0816. ISBN: 0-89603-392-9.
DT   Book
LA   English

AN   2000:271671 BIOSIS
DN   PREV200000271671
TI   New opioid peptides, **peptidomimetics,** and heterocyclic compounds
      from combinatorial **libraries.**
AU   Dooley, C. T.; Houghten, R. A. (1)
CS   (1) Torrey Pines Institute for Molecular Studies, 3550 General Atomics
      Court, San Diego, CA, 92121 USA
SO   Biopolymers, (April 24, 1999) Vol. 51, No. 6, pp. 379-390. print..
      ISSN: 0006-3525.
DT   General Review
LA   English
SL   English
AB   Here we review the use of combinatorial libraries in opioid receptor
      assays. Following a brief description of the history of the combinatorial
      field, methods for the generation of synthetic libraries and the
      deconvolution of mixture-based libraries are presented. Case
      studies involving opioid assays used to demonstrate the viability of
      combinatorial libraries are described. The identification of new opioid
      peptides from combinatorial libraries is reviewed. The peptides found are
      composed of L-amino acids, D-amino acids, or L-, D-, and unnatural amino
      acids, and range from tetrapeptides to decapeptides. Likewise, new opioid
      compounds identified from **peptidomimetic libraries,**
      such as peptoids and alkylated dipeptides, and those identified from
      acyclic (e.g., polyamine, urea) and heterocyclic (e.g., bicyclic
      guanidine) libraries, are reviewed.
CC   Biochemical Studies - General *10060
      Genetics and Cytogenetics - General *03502
      Nervous System - General; Methods *20501
      Biochemical Methods - General *10050
IT   Major Concepts
         Biochemistry and Molecular Biophysics; Methods and Techniques
IT   Chemicals & Biochemicals
         D-amino acids; L-amino acids; alkylated dipeptides; bicyclic guanidine;
         nociceptin; opioid heterocyclic compounds; opioid peptides; opioid
         peptidomimetics; orphanin FQ; peptoids; polyamine; urea
IT   Methods & Equipment
         combinatorial library synthesis: Synthesis/Modification Techniques,
         synthetic method; **iterative deconvolution:**
         Bioassays/Physiological Analysis, analytical method; opioid receptor
         assays: Bioassays/Physiological Analysis, analytical method; positional
         scanning: Bioassays/Physiological Analysis, analytical method
IT   Miscellaneous Descriptors
         combinatorial libraries
RN   170713-75-4 (NOCICEPTIN)
      170713-75-4 (ORPHANIN FQ)
      57-13-6 (UREA)

AN   1999:160886 BIOSIS
DN   PREV199900160886
TI   Techniques for mixture synthesis.
AU   Kiely, John S. (1)
CS   (1) Houghten Pharmaceuticals Inc., 3550 General Atomics Court, San Diego,
      CA 92121 USA
SO   Moos, W. H. [Editor]; Pavia, M. R. [Editor]; Kay, B. K. [Editor];
      Ellington, A. D. [Editor]. (1997) pp. 6-18. Annual reports in
      combinatorial chemistry and molecular diversity, Vol. 1.
      Publisher: ESCOM Science Publishers B.V. PO Box 214, 2300 AE Leiden, The
      Netherlands.

```
DT.  Book
LA   English
CC   Biochemical Methods - General   *10050
     Biochemical Studies - General   *10060
     Pharmacology - General   *22002
IT   Major Concepts
        Methods and Techniques; Pharmaceuticals (Pharmacology)
IT   Chemicals & Biochemicals
        chemical library: diversity; peptide library; peptidomimetic
        library; receptor library
IT   Methods & Equipment
           iterative deconvolution: synthetic method; mixture
        synthesis: synthetic method
IT   Miscellaneous Descriptors
        mixture-based combinatorial library: preparation; Book Chapter

L8   ANSWER 3 OF 3  BIOSIS  COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   1998:144585  BIOSIS
DN   PREV199800144585
TI   Peralkylation: "Libraries from libraries": Chemical transformation of
     synthetic combinatorial libraries.
AU   Ostresh, John M.; Doerner, Barbara; Houghten, Richard A.
CS   Torrey Pines Inst. Molecular Studies, San Diego, CA USA
SO   Cabilly, S. [Editor]. Methods in Molecular Biology, (1998) Vol. 87, pp.
     41-49. Methods in Molecular Biology; Combinatorial peptide library
     protocols.
     Publisher: Humana Press Inc. Suite 808, 999 Riverview Drive, Totowa, New
     Jersey 07512, USA.
     ISSN: 0097-0816. ISBN: 0-89603-392-9.
DT   Book
LA   English
CC   Biochemical Methods - Proteins, Peptides and Amino Acids   *10054
     Biochemical Studies - Proteins, Peptides and Amino Acids   *10064
     Biophysics - Molecular Properties and Macromolecules   *10506
IT   Major Concepts
        Biochemistry and Molecular Biophysics; Methods and Techniques
IT   Chemicals & Biochemicals
        peptide: analysis
IT   Methods & Equipment
           iterative deconvolution method: analytical method;
        positional scanning deconvolution method: analytical method
IT   Miscellaneous Descriptors
        peralkylation-peptidomimetic positional scanning
        library: chemical transformation; synthetic combinatorial
        library: chemical transformation; Book Chapter


=>
```

AN   2000:492336   SCISEARCH
GA   The Genuine Article (R) Number: 327VJ
TI   Drug discovery and vaccine development using mixture-based synthetic
      combinatorial libraries
AU   Houghten R A (Reprint); Wilson D B; Pinilla C
CS   TORREY PINES INST MOL STUDIES, 3550 GEN ATOM COURT, SAN DIEGO, CA 92121
      (Reprint)
CYA   USA
SO   DRUG DISCOVERY TODAY, (JUL 2000) Vol. 5, No. 7, pp. 276-285.
      Publisher: ELSEVIER SCI LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON,
      OXFORD OX5 1GB, OXON, ENGLAND.
      ISSN: 1359-6446.
DT   General Review; Journal
FS   LIFE
LA   English
REC   Reference Count: 57
      ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AN   2001:253930   BIOSIS
DN   PREV200100253930
TI   Selectively N-alkylated **peptidomimetic** combinatorial
      libraries and compounds therein.
AU   Dorner, Barbar (1); Ostresh, John M.; Dooley, Colette T.; Houghten,
      Richard A.; Eichler, Jutta
CS   (1) Basel Switzerland
      ASSIGNEE: Trega Biosciences, Inc.
PI   US 6143932 November 07, 2000
SO   Official Gazette of the United States Patent and Trademark Office Patents,
      (Nov. 7, 2000) Vol. 1240, No. 1, pp. No Pagination. e-file.
      ISSN: 0098-1133.
DT   Patent
LA   English

AN   2001:209934   BIOSIS
DN   PREV200100209934
TI   Selectively N-alkylated **peptidomimetic** combinatorial
      libraries and compounds therein.
AU   Dorner, Barbar (1); Ostresh, John M.; Dooley, Colette T.; Houghten,
      Richard A.; Eichler, Jutta
CS   (1) Basel Switzerland
      ASSIGNEE: Trega Biosciences, Inc., San Diego, CA, USA
PI   US 6121489 September 19, 2000
SO   Official Gazette of the United States Patent and Trademark Office Patents,
      (Sep. 19, 2000) Vol. 1238, No. 3, pp. No Pagination. e-file.
      ISSN: 0098-1133.
DT   Patent
LA   English

AN   2000:271671   BIOSIS
DN   PREV200000271671
TI   New opioid peptides, **peptidomimetics,** and heterocyclic compounds
      from combinatorial **libraries.**
AU   Dooley, C. T.; Houghten, R. A. (1)
CS   (1) Torrey Pines Institute for Molecular Studies, 3550 General Atomics
      Court, San Diego, CA, 92121 USA
SO   Biopolymers, (April 24, 1999) Vol. 51, No. 6, pp. 379-390. print..
      ISSN: 0006-3525.

DT   General Review
LA   English
SL   English

L9   ANSWER 5 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   1998:144585 BIOSIS
DN   PREV199800144585
TI   Peralkylation: "Libraries from libraries": Chemical transformation of
     synthetic combinatorial libraries.
AU   Ostresh, John M.; Doerner, Barbara; Houghten, Richard A.
CS   Torrey Pines Inst. Molecular Studies, San Diego, CA USA
SO   Cabilly, S. [Editor]. Methods in Molecular Biology, (1998) Vol. 87, pp.
     41-49. Methods in Molecular Biology; Combinatorial peptide library
     protocols.
     Publisher: Humana Press Inc. Suite 808, 999 Riverview Drive, Totowa, New
     Jersey 07512, USA.
     ISSN: 0097-0816. ISBN: 0-89603-392-9.
DT   Book
LA   English

L9   ANSWER 6 OF 12 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN   1996:301 BIOSIS
DN   PREV199698572436
TI   Peptide, **peptidomimetic,** and organic synthetic combinatorial
     libraries.
AU   Eichler, Jutta; Appel, Jon R.; Blondelle, Sylvie E.; Dooley, Colette T.;
     Dorner, Barbara; Ostresh, John M.; Perez-Paya, Enrique; Pinilla,
     Clemencia; Houghten, Richard A. (1)
CS   (1) Torrey Pines Inst. Molecular Studies, 3550 General Atomics Court, San
     Diego, CA 92121 USA
SO   Medicinal Research Reviews, (1995) Vol. 15, No. 6, pp. 481-496.
     ISSN: 0198-6325.
DT   General Review
LA   English

L9   ANSWER 7 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN   2001:196907 CAPLUS
TI   Mixtures in combinatorial libraries: The balance between completeness and
     efficiency
AU   Houghten, Richard A.
CS   Torrey Pines Institute for Molecular Studies and Mixture Sciences, Inc,
     San Diego, CA, 92121, USA
SO   Abstracts of Papers - American Chemical Society (2001), 221st, AGFD-088
     CODEN: ACSRAL; ISSN: 0065-7727
PB   American Chemical Society
DT   Journal; Meeting Abstract
LA   English

L9   ANSWER 8 OF 12 CAPLUS COPYRIGHT 2003 ACS
AN   2000:436455 CAPLUS
DN   134:80357
TI   Drug discovery and vaccine development using mixture-based synthetic
     combinatorial libraries
AU   Houghten, R. A.; Wilson, D. B.; Pinilla, C.
CS   Mixture Sciences, Torrey Pines Institute for Molecular Studies, San Diego,
     CA, 92121, USA
SO   Drug Discovery Today (2000), 5(7), 276-285
     CODEN: DDTOFS; ISSN: 1359-6446
PB   Elsevier Science Ltd.
DT   Journal; General Review
LA   English
RE.CNT 57   THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD

```
L9    ANSWER 9 OF 12  CAPLUS  COPYRIGHT 2003 ACS
AN    2000:328158  CAPLUS
TI    Mixtures in combinatorial libraries: The balance between completeness and
      efficiency.
AU    Houghten, Richard A.
CS    Torrey Pines Institute for Molecular Studies and Mixture Sciences, Inc,
      San Diego, CA, 92121, USA
SO    Book of Abstracts, 219th ACS National Meeting, San Francisco, CA, March
      26-30, 2000 (2000), CHED-030 Publisher: American Chemical Society,
      Washington, D. C.
      CODEN: 69CLAC
DT    Conference; Meeting Abstract
LA    English


L9    ANSWER 10 OF 12  CAPLUS  COPYRIGHT 2003 ACS
AN    1999:810196  CAPLUS
DN    132:121258
TI    Immunogenicity. I. Use of peptide libraries to identify epitopes that
      activate clonotypic CD4+ T cells and induce T cell responses to native
      peptide ligands
AU    Wilson, Darcy B.; Pinilla, Clemencia; Wilson, Dianne H.; Schroder, Kim;
      Boggiano, Cesar; Judkowski, Valeria; Kaye, Jonathan; Hemmer, Bernhard;
      Martin, Roland; Houghten, Richard A.
CS    Torrey Pines Institute for Molecular Studies, San Diego, CA, 92121, USA
SO    Journal of Immunology (1999), 163(12), 6424-6434
      CODEN: JOIMA3; ISSN: 0022-1767
PB    American Association of Immunologists
DT    Journal
LA    English
RE.CNT  24     THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT


L9    ANSWER 11 OF 12  CAPLUS  COPYRIGHT 2003 ACS
AN    1997:618263  CAPLUS
DN    127:263064
TI    Preparation of selectively N-alkylated peptidomimetic
      combinatorial libraries and compounds as analgesics and
      antidiabetics
IN    Dorner, Barbara; Ostresh, John M.; Dooley, Collette T.; Eichler, Jutta;
      Houghten, Richard A.
PA    Torrey Pines Institute for Molecular Studies, USA
SO    PCT Int. Appl., 153 pp.
      CODEN: PIXXD2
DT    Patent
LA    English
FAN.CNT 1
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9733174	A1	19970912	WO 1997-IB349	19970305

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         W:  AU, CA, JP
         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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CA 2248078	AA	19970912	CA 1997-2248078	19970305
AU 9720405	A1	19970922	AU 1997-20405	19970305
AU 720632	B2	20000608		
EP 890101	A1	19990113	EP 1997-908448	19970305

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         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
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JP 2001502293	T2	20010220	JP 1997-531626	19970305
PRAI US 1996-611390	A	19960305		
WO 1997-IB349	W	19970305		

AN   1997:162646   CAPLUS
TI   Heterocyclic **positional scanning** combinatorial
      libraries.
AU   Houghten, R. A.
CS   Houghten Pharmaceuticals, Inc., San Diego, CA, 92121, USA
SO   Book of Abstracts, 213th ACS National Meeting, San Francisco, April 13-17
      (1997), ORGN-384 Publisher: American Chemical Society, Washington, D. C.
      CODEN: 64AOAA
DT   Conference; Meeting Abstract
LA   English

AN   1998249460   MEDLINE
DN   98249460   PubMed ID: 9587871
TI   Screening of a small set of random peptides: a new strategy to identify synthetic peptides that mimic epitopes.
AU   **Slootstra J W**; Puijk W C; Ligtvoet G J; Kuperus D; Schaaper W M; Meloen R H
CS   Department of Molecular Recognition, Institute for Animal Science and Health (ID-DLO), Lelystad, The Netherlands.
SO   JOURNAL OF MOLECULAR RECOGNITION, (1997 Sep-Oct) 10 (5) 217-24. Journal code: 9004580. ISSN: 0952-3499.
CY   ENGLAND: United Kingdom
DT   Journal; Article; (JOURNAL ARTICLE)
LA   English
FS   Priority Journals
EM   199807
ED   Entered STN: 19980713
.   Last Updated on STN: 19980713
      Entered Medline: 19980701
AB   Small diversity **libraries**, composed of 4550 synthetic dodecapeptides and 8000 synthetic tripeptides, have been used to identify sequences homologous to small linear and non-linear parts of epitopes. Here we report that synthetic peptides identified through alignment of dodecapeptides and tripeptides derived from these small **libraries** have, in direct ELISA and/or competitive ELISA, activities similar to that of peptides covering the native epitope and similar to that of peptides derived from large expression **libraries** composed of $10(6)-10(7)$ random peptides. This result was obtained with the monoclonal antibodies 6A.A6 and M2. Mab 6A.A6 binds the transmissible gastroenteritis virus (TGEV) and mAb M2 binds the FLAG-peptide, an affinity tag. It was also found that the antibody binding activity of peptides, derived from small or large **libraries**, can strongly depend on the way in which the peptide is presented to the antibody, i.e. high antibody titers were obtained when these peptides were synthesized on pins or coated onto microtiter plates, whereas low IC50s were obtained with these peptides in solution. We postulate that small peptide **libraries** may be a powerful tool to quickly identify new peptides that can be used as sensitive markers for mAbs of interest.
CT   Check Tags: Animal
      Antibodies, Monoclonal: IM, immunology
      Antibodies, Viral: IM, immunology
      Antigens, Viral: IM, immunology
      Enzyme-Linked Immunosorbent Assay
      *Epitopes: AN, analysis
      Epitopes: IM, immunology
      *Molecular Mimicry
      *Peptide Fragments: AN, analysis
      Peptide Fragments: CS, chemical synthesis
      *Peptide Fragments: IM, immunology
      Peptides: IM, immunology
      Transmissible gastroenteritis virus: IM, immunology
      Viral Proteins: IM, immunology
RN   98849-88-8 (FLAG peptide)
CN   0 (Antibodies, Monoclonal); 0 (Antibodies, Viral); 0 (Antigens, Viral); 0 (Epitopes); 0 (Peptide Fragments); 0 (Peptides); 0 (Viral Proteins); 0 (spike protein S)

L17   ANSWER 9 OF 11 SCISEARCH COPYRIGHT 2003 THOMSON ISI
AN   97:386777   SCISEARCH
GA   The Genuine Article (R) Number: WY866
TI   Identification of new tag sequences with differential and selective

recognition properties for the anti-FLAG monoclonal antibodies M1, M2 and M5

AU   **Slootstra J W (Reprint)**; Kuperus D; Pluckthun A; Meloen R H
CS   DLO, ID, INST ANIM SCI & HLTH, DEPT MOL RECOGNIT, POB 65, NL-8200 AB
     LELYSTAD, NETHERLANDS (Reprint); UNIV ZURICH, INST BIOCHEM, CH-8057
     ZURICH, SWITZERLAND
CYA NETHERLANDS; SWITZERLAND

DT   Article; Journal
FS   LIFE
LA   English
REC Reference Count: 21

AB   The FLAG peptides DYKDDDDK and MDYKDDDDK are widely used affinity tags.
     Here we describe new variants of the FLAG peptides which, in direct ELISA,
     showed selective and differential binding to the commercially available
     anti-FLAG monoclonal antibodies M1, M2 and M5. Variants of the FLAG
     peptides were synthesized on polymer-grafted plastic pins, and in an ELISA
     incubated with mAbs M1, M2 and M5. Among the newly identified tag
     sequences are those that bind only one of the anti-FLAG mAbs and those
     that bind only two or all three of the anti-FLAG mAbs. Examples of new tag
     sequences are MDFKDDDDK (which binds mAb M5 and does not bind mAbs Evil
     and M2) and MDYKAFDNL (which binds mAb M2 and does not bind mAbs M1 and
     M5). The sensitivity in direct ELISA of some variants was increased, e.g.
     using mAb M2 it was found that replacing DDDDK in MDYKDDDDK by AFDNL
     increased the sensitivity in ELISA at least 10-fold, The activity of this
     peptide was studied in more detail. In different direct ELISAs, in which
     MDYKAFDNL was synthesized on polyethylene pins, coated onto polystyrene
     microtiter plates or onto nitrocellulose paper, the activity of this
     peptide was similar, i.e. increased at least 10-fold over that of
     MDYKDDDDK. Remarkably, in competitive ELISA the binding activity of
     soluble MDYKAFDNL, was decreased 10-fold over those of soluble MDYKDDDDK
     or DYKDDDDK. The results seem to suggest that, in solution, the
     conformation of MDYKAFDNL is more 'unstructured' compared to its
     conformation when coated or linked to a carrier. We postulate that the
     newly described tag sequences may be used as affinity tags to separately
     detect, quantify and purify multiple co-expressed proteins and/or
     subunits.
CC   CHEMISTRY, APPLIED; CHEMISTRY, MEDICINAL
ST   Author Keywords: affinity tag; FLAG peptide; differential recognition
STP KeyWords Plus (R): N-TERMINAL METHIONINE; PHAGE DISPLAY **LIBRARY**;
     2-STAGE SELECTION; ESCHERICHIA-COLI; AMINO-ACID; PEPTIDE; PURIFICATION;
     PROTEINS; CONFORMATION; RESIDUES
RF   95-1812 001; SYNTHETIC COMBINATORIAL LIBRARIES; CYCLIC PEPTIDE MIXTURES;
     DRUG DISCOVERY; PHAGE DISPLAY
RE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)
DALBOGE H	1990	266	1	FEBS LETT
DEBLAS A L	1983	133	214	ANAL BIOCHEM
GEYSEN H M	1984	81	3998	P NATL ACAD SCI USA
HIREL P H	1989	86	8247	P NATL ACAD SCI USA
HOPP T P	1988	6	1204	BIOTECHNOLOGY
HUANG S	1987	26	8242	BIOCHEMISTRY-US
JONES C	1995	707	3	J CHROMATOGR A
KNAPPIK A	1994	17	754	BIOTECHNIQUES
LANG E	1994	170	103	J IMMUNOL METHODS
LANGEVELD J P M	1994	68	4506	J VIROL
LI K W	1989	472	445	J CHROMATOGR
LIGHT A	1989	14	110	TRENDS BIOCHEM SCI

MATTIOLI S		1995	69	5294	J VIROL
MICELI R M		1994	167	279	J IMMUNOL METHODS
PINILLA C		1995	1	21	MOL DIVERSITY
PRICKETT K S		1989	7	580	BIOTECHNIQUES
SASSENFELD H M		1990	8	88	TRENDS BIOTECHNOL
SCHAFER K		1995	207	708	BIOCHEM BIOPH RES CO
STOCKMAN B J		1995	45	11	INT J PEPT PROT RES
TAO Y		1994	302	517	BIOCHEM J
TATE C G		1994	269	26303	J BIOL CHEM

```
L17   ANSWER 10 OF 11   CAPLUS   COPYRIGHT 2003 ACS
AN    1996:695888 CAPLUS
DN    126:6016
TI    Mapping of antigenic determinants with large random expression
      libraries and small random synthetic peptide libraries:
      A comparative study
AU    Slootstra, J. W.; Puijk, W. C.; Ligtvoet, G. J.; Langeveld, J.
      P. M.; Schaaper, W. M. M.; Meloen, R. H.
CS    Department Molecular Recognition, Institute Animal Science and Health
      (ID-DLO), Lelystad, 8200 AB, Neth.
SO    Peptides: Chemistry, Structure and Biology, Proceedings of the American
      Peptide Symposium, 14th, Columbus, Ohio, June 18-23, 1995 (1996), Meeting
      Date 1995, 301-302.  Editor(s): Kaumaya, Pravin T. P.; Hodges, Robert S.
      Publisher: Mayflower Scientific, Kingswinford, UK.
      CODEN: 63NTAF
DT    Conference
LA    English
CC    15-2 (Immunochemistry)
AB    In recent years, many epitopes have been successfully mapped using
      immunoscreening of large random peptide libraries composed of
      millions of different sequences.  Here, this approach was compared with
      immunoscreening of small synthetic random peptide libraries
      contg. 4550 random dodecapeptides and 8000 tripeptides.  The peptide
      libraries were used to identify consensus sequences for antibody
      reactivity and to design epitope-mimicking peptides.
ST    epitope mapping antigen peptide library
IT    Peptides, biological studies
      RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
      (Properties); BIOL (Biological study); PROC (Process)
        (dodeca-; mapping of antigenic determinants with large random
        expression libraries and small random synthetic peptide
        libraries)
IT    Tripeptides
      RL: BPR (Biological process); BSU (Biological study, unclassified); PRP
      (Properties); BIOL (Biological study); PROC (Process)
        (mapping of antigenic determinants with large random expression
        libraries and small random synthetic peptide libraries
        )
IT    Antibodies
      RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
      (Biological study); PROC (Process)
        (monoclonal; mapping of antigenic determinants with large random
        expression libraries and small random synthetic peptide
        libraries)

L17   ANSWER 11 OF 11      MEDLINE                      DUPLICATE 3
AN    97380408      MEDLINE
DN    97380408    PubMed ID: 9237197
TI    Structural aspects of antibody-antigen interaction revealed through small
      random peptide libraries.
AU    Slootstra J W; Puijk W C; Ligtvoet G J; Langeveld J P; Meloen R
      H
```

AB   Two small random peptide **libraries**, one composed of 4550
     dodecapeptides and one of 8000 tripeptides, were synthesized in newly
     developed credit-card format miniPEPSCAN cards (miniPEPSCAN
     libraries). Each peptide was synthesized in a discrete well (455
     peptides/card). The two miniPEPSCAN **libraries** were screened
     with three different monoclonal antibodies (Mabs). Two other random
     peptide **libraries**, expressed on the wall of bacteria
     (recombinant **libraries**) and composed of 10(7) hexa- and
     octapeptides, were screened with the same three Mabs. The aim of this
     study was to compare the amino acid sequence of peptides selected from
     small and large pools of random peptides and, in this way, investigate the
     potential of small random peptide **libraries**. The screening of
     the two miniPEPSCAN **libraries** resulted in the identification of
     a surprisingly large number of antibody-binding peptides, while the
     screening of the large recombinant **libraries**, using the same
     Mabs, resulted in the identification of only a small number of peptides.
     The large number of peptides derived from the small random peptide
     libraries allowed the determination of consensus sequences. These
     consensus sequences could be related to small linear and nonlinear parts
     of the respective epitopes. The small number of peptides derived from the
     large random peptide **libraries** could only be related to linear
     epitopes that were previously mapped using small **libraries** of
     overlapping peptides covering the antigenic protein. Thus, with respect
     to the cost and speed of identifying peptides that resemble linear and
     nonlinear parts of epitopes, small diversity **libraries** based on
     synthetic peptides appear to be superior to large diversity
     libraries based on expression systems.
CT   Check Tags: Animal; In Vitro
      Amino Acid Sequence
      Antibodies, Monoclonal
     *Antigen-Antibody Reactions
      Consensus Sequence
      Epitopes: CH, chemistry
      Molecular Structure
      Oligopeptides: CH, chemistry
      Oligopeptides: IM, immunology
      Oligopeptides: ME, metabolism
       *Peptide Library
      Plasmodium falciparum: CH, chemistry
      Plasmodium falciparum: GE, genetics
      Plasmodium falciparum: IM, immunology
      Protein Binding
      Protozoan Proteins: CH, chemistry
      Protozoan Proteins: GE, genetics
      Protozoan Proteins: IM, immunology
CN   0 (Antibodies, Monoclonal); 0 (Epitopes); 0 (Oligopeptides); 0 (Peptide
     Library); 0 (Pfs25 protein, Plasmodium falciparum); 0 (Protozoan
     Proteins)